



# Specification Sheet

## Z-Ultimate 400T

### Features:

- Thermal transfer, gloss polyester label with a high-performance permanent acrylic adhesive
- Unparalleled smear/scratch resistance
- Excellent durability and chemical resistance
- Resistance to repeated freeze and thaw cycles
- Topcoating is suitable for fanfolding
- Available in white (05219RM), silver (05571RM), clear (05061RM)

### Suggested Applications:

- UL/CSA compliance product labeling
- UID compliance product labeling
- Top-side PCB labeling
- Asset labeling
- Automotive labeling
- Serial plate labeling
- Virology labeling
- Extreme low temperature applications down to -80° C

### Material Construction:

	Description	Caliper
Facestock	White, silver, or clear coated polyester	2.0 mil
Adhesive	Permanent, acrylic-based	0.8 mil
Liner	50 lb. semi-bleached, kraft stock	3.0 mil
	<b>Total</b>	<b>5.8 mil</b>

### Temperature Performance:

- Minimum Application Temperature: 50° F (10° C)
- Service Temperature: -112° F to 302° F (-80° C to 150° C)
- Storage Conditions: 32° F to 70° F (0° C to 21° C) at 35% to 50% RH
- Expected Exterior Life: 3 years





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### Suggested Ribbons for Applications with Chemicals

	Weak					Moderate				Harsh			Extreme				
	Blood	Body Fluid	Salt Water	Water	Window Cleaner	Alcohol	Ammonia	Bleach	IPA	Gasoline	Grease	Oil	Acetone	IR Reflow	MEK	TCE	Xylene
<b>4100</b>	X	X	X	X	X	X	X	X	X		X	X					
<b>5095</b>	X	X	X	X	X	X	X	X	X		X	X					
<b>5100</b>	X	X	X	X	X	X	X	X	X	X	X	X					

### UL/CSA Acceptances:

Z-Ultimate 4000T White and Silver with 5095 and 5100 ribbons is UL-recognized and CSA-accepted for indoor/outdoor use.

Z Ultimate 4000T Clear does not have UL-recognition or CSA-approval.

### UID Compliance:

Complies with these classifications:

MIL-PRF-61002A-II-A-1-b (compliance dependent on solvents and heat aging specified)

MIL-PRF-61002A-II-B-1-b

MIL-PRF-61002A-II-C-1-b

### 180° Peel Room Temperature Peel Adhesion (oz/in):

Steel		Polycarbonate		Polyethylene	
5 min	24 hr	5 min	24 hr	5 min	24 hr
39	47	29	47	11	14

### Facestock Tensile Strength:

- Machine direction: 18,000 psi
- Transverse direction: 22,000 psi





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NOTE: For guidance only, not to be used for setting specifications

## **Product Performance and Suitability**

The information contained in this document is to be used for guidance only and is not intended for use in setting specifications. All purchasers of Zebra products shall be solely responsible for independently determining if the product conforms to all requirements of their unique application.

